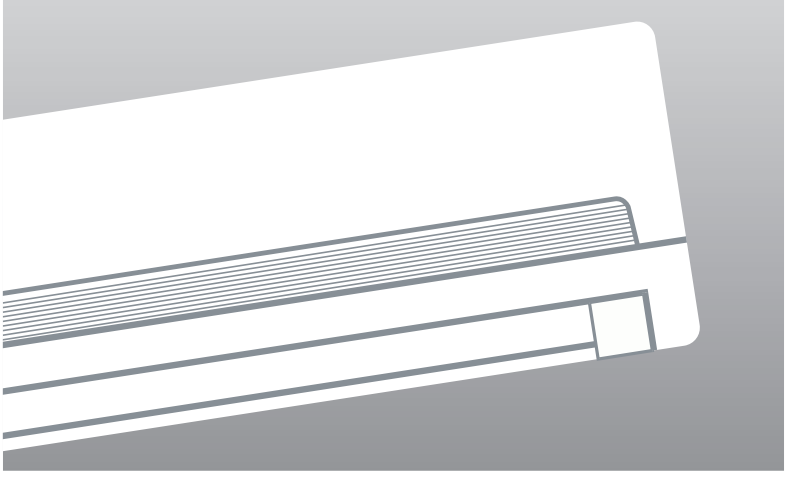
SAMSUNG

USER'S MANUAL

AQ09F✳ Series
AQ12F✳ Series
AQ18F✳ Series
AQ24F✳ Series
AQ09J✳ Series
AQ12J✳ Series
AQ18J✳ Series
AQ24J✳ Series
AQ09W✳ Series
AQ12W✳ Series
AQ18W✳ Series
AQ24W✳ Series

Split-type Room Air Conditioner
(Cooling and Heating)



ⒺⓅⒺDB98-26950A(1)

Safety Precautions

The following safety precautions must be taken when using your air conditioner.

⚠ *WARNING* Risk of electric shock. • Can cause injury or death. • Disconnect all remote electric power supplies before servicing, installing or cleaning. • This must be done by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.

During operation

- Users of this product are cautioned not to attempt repair of this product at their own discretion. Instead, they are requested to directly contact a designated service center or the outlet at which the product was purchased.
- Never spill any kind of liquid into the unit. Should this happen, unplug or main switch off the unit and contact an authorized service center.
- Do not insert anything between the air outlet blades because the inner fan may be damaged and could cause injury. Keep children away from the unit.
- Do not place any obstacles in front of the unit.
- Do not spray liquid of any kind into the indoor unit. Should this happen, switch off the breaker used for your air conditioner and contact your installation specialist.
- Make sure that the unit is correctly ventilated at all times: Do not place clothing or other materials over it.
- If the wireless remote control will not be used for a long time, remove the batteries. (If applicable)
- When using a wireless remote control, the distance should not be more than 7 meters from the air conditioner. (If applicable)

Disposing of the unit

- Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely for recycling reasons.
- When you need to dispose of the unit, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and come into contact with your skin, causing injury. Releasing refrigerant into the atmosphere also damages the environments.
- Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Others

- Never store or ship the air conditioner upside down or sideways to avoid damage to the compressor.
- The appliance is not intended for use by young children or infirm persons without supervision: Young children should be supervised to ensure that they do not play with the appliance.
- Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

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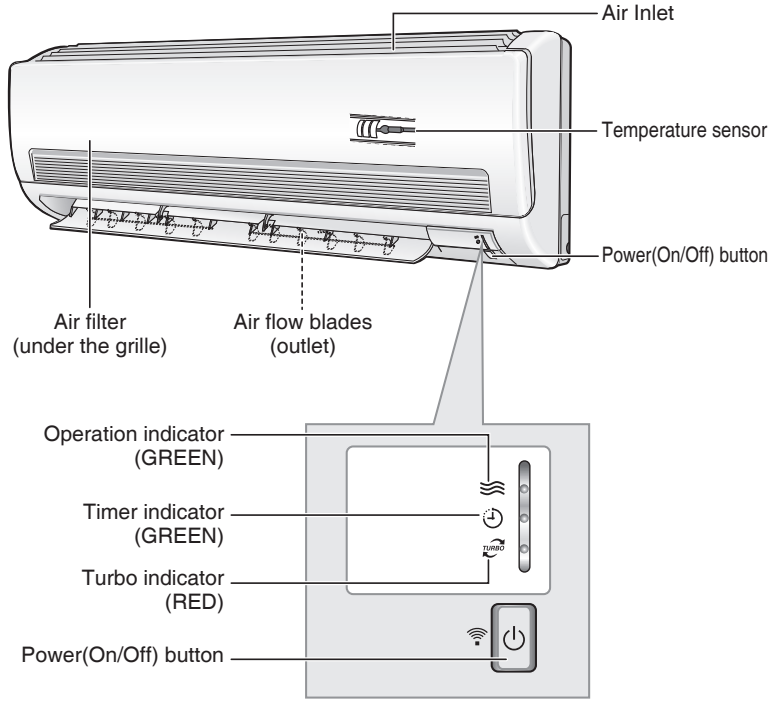
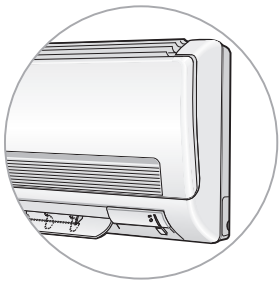
View of the Unit

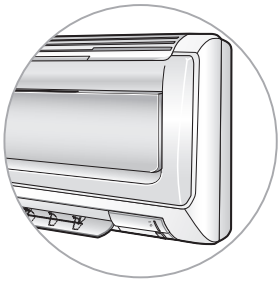
The design and shape are subject to change according to the model.

Indoor Unit

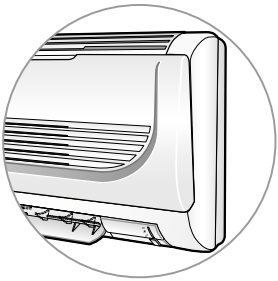




AQ✳✳F✳ Series

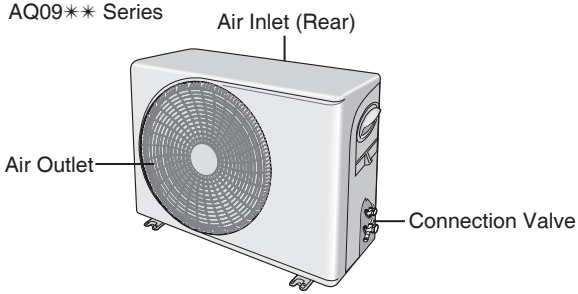


AQ✳✳J✳ Series

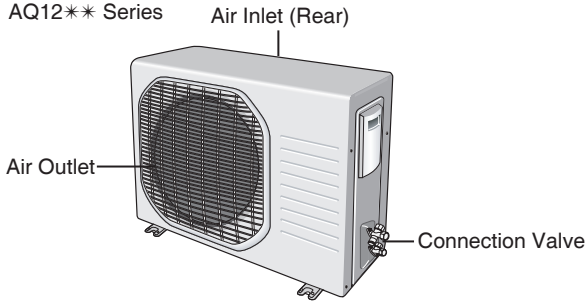


AQ✳✳W✳ Series

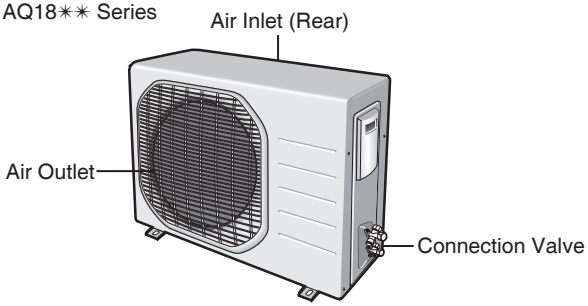
Outdoor Unit AQ09✳✳ Series



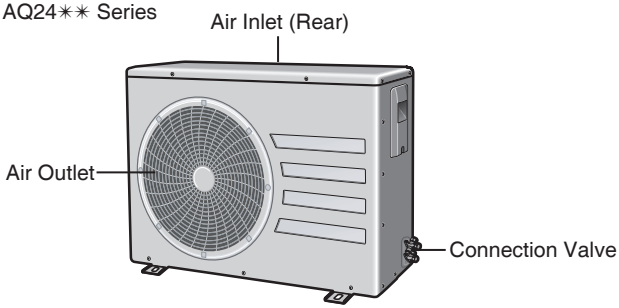
Outdoor Unit AQ12✳✳ Series



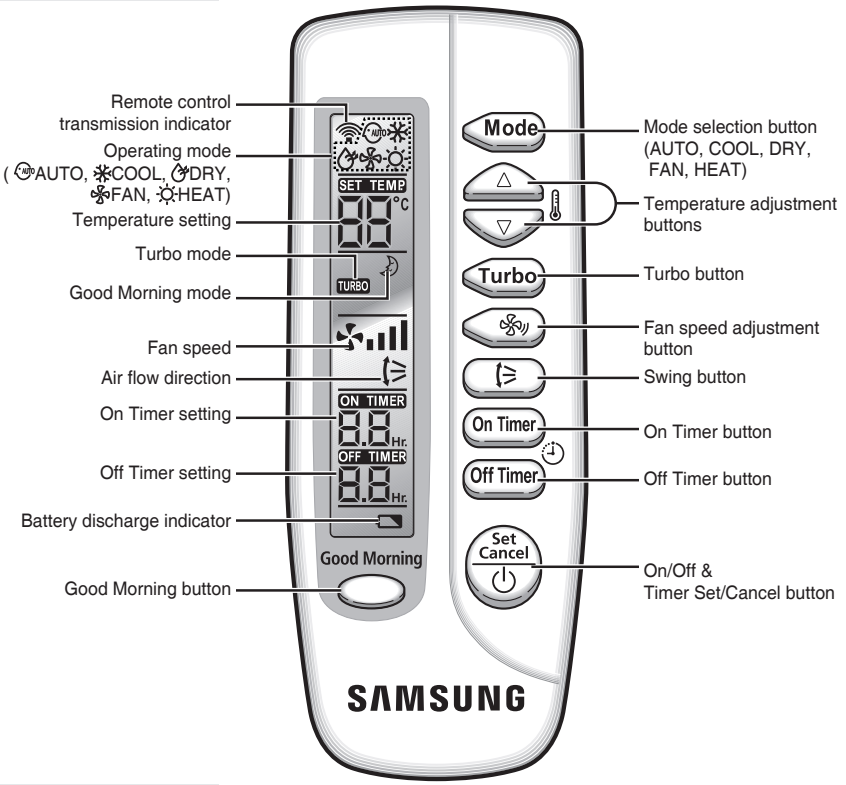
Outdoor Unit AQ18✳✳ Series



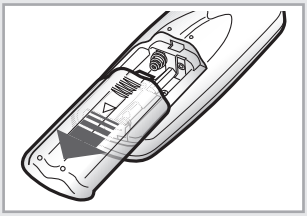
Outdoor Unit AQ24✳✳ Series

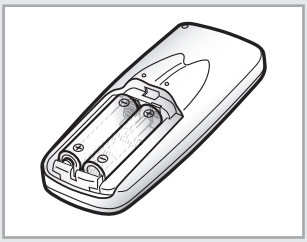


Remote Control - Buttons and Display



Inserting the Remote Control Batteries





You must insert or replace the remote control batteries when :

- ◆ ***You purchase the air conditioner***
- ◆ ***The remote control does not work correctly***

Note

- ◆ Use two AAA, LR03 1.5V batteries.
- ◆ Do not use old batteries or different kinds of batteries together.
- ◆ Batteries may be completely discharged after 12 months, even if they have not actually been used.

1 Push the battery cover on the rear of the remote control with your thumb in the direction of the arrow and remove it.

2 Insert the two batteries, taking care to respect the polarities :

- ◆ + on the battery with + on the remote control.
- ◆ - on the battery with - on the remote control.

3 Close the cover by sliding it back until it clicks into place.

Getting Started

You have just purchased a split type air conditioner and it has been installed by your installation specialist.

Your Owner's Instructions contains valuable information on using your air conditioner. Please take the time to read it as it will help you take full advantage of the unit's features.

The booklet is organized as follows.

- **The following figures are shown on pages from 4 to 6 :**
  - **Indoor and outdoor units**
  - **Remote control(buttons and display)**

  They will help you find the buttons and understand the symbols displayed.

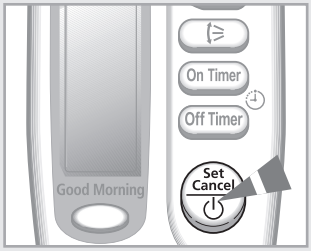
- **In the manual, you will find a series of step-by-step procedures for each function available.**

The illustrations in the step-by-step procedures use three different symbols:

PRESS	**PUSH**	**HOLD DOWN**

Selecting the Automatic Operating Mode

You can start the air conditioner in Auto mode from your remote control. In the Auto mode, the cooling and heating operation is selected automatically. You can also raise or lower the temperature and the fan speed in the Auto mode.

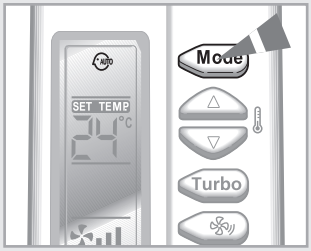


1 If necessary, press the Set/Cancel button.

Result:
- The operation indicator on the indoor unit lights up.
- The air conditioner starts up in the mode selected when the unit was last used.
- The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- Plugged in
- Stopped

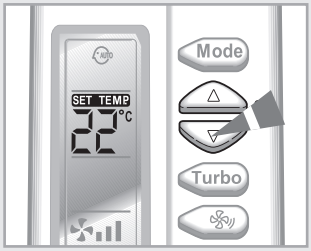
It will start up normally after three minutes.



2 If the AUTO is not displayed at the top of the remote control, press the Mode button on the remote control one or more times until it appears.

Result:
- The indoor unit beeps each time you press the Mode button.
- The air conditioner runs in the Auto mode.
- The Auto mode cools and heats the room in optimum condition by adjusting the indoor temperature depending on the set temperature.
- The mode may change from cooling into heating, from heating into cooling depending on the current temperature during operation.

Note You can change modes at any time.



3 To adjust the temperature, press the ▲ ▼ button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

Result:
- Each time you press the ▲ ▼ button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps

Cooling Your Room

You must select the Cool mode if you wish to adjust the:

- ***Cooling temperature***
- ***Fan speed when cooling***

1 If necessary, press the Set Cancel button.

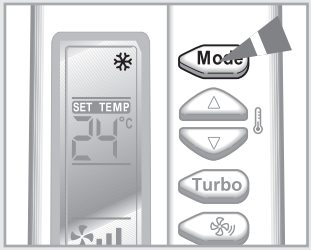
Result:
- The operation indicator on the indoor unit lights up.
- The air conditioner starts up in the mode selected when the unit was last used.
- The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- Plugged in
- Stopped

It will start up normally after three minutes.

2 If the ❄ is not displayed at the top of the remote control, press the Mode button on the remote control one or more times until it appears.

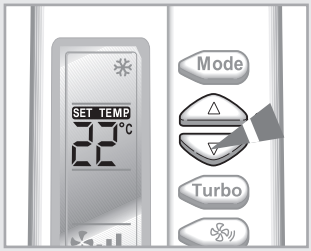
Result:
- The indoor unit beeps each time you press the Mode button.
- The air conditioner runs in the Cool mode.



Note You can change modes at any time.

3 To adjust the temperature, press the ▲ ▽ button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

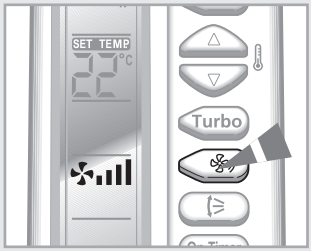
Result:
- Each time you press the ▲ ▽ button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps
- The air conditioner starts cooling, provided that the room temperature is higher than the selected temperature.
- If the room temperature reaches the set temperature, the air conditioner stops cooling, but the fan is still operating.



4 Select the fan speed by pressing the Fan button one or more times until the required setting is displayed:

- Automatic (rotated : ➡ ➡)
- Low
- Medium
- High
- Maximum

Result: Each time you press the Fan button, the indoor unit beeps.



5 To control the direction of the air flow, refer to pages 14.

Heating Your Room

You must select the Heat mode if you wish to adjust the:

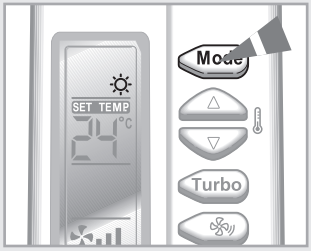
- ***Heating temperature***
- ***Fan speed when Heating***

1 If necessary, press the Set/Cancel button.

Result:
- The operation indicator on the indoor unit lights up.
- The air conditioner starts up in the mode selected when the unit was last used.
- The indoor unit beeps.

IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- Plugged in
- Stopped

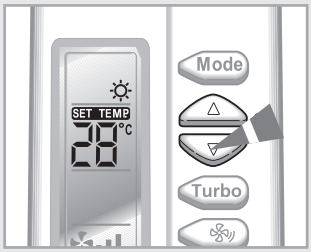
It will start up normally after three minutes.



2 If the ☼ is not displayed at the top of the remote control, press the Mode button on the remote control one or more times until it appears.

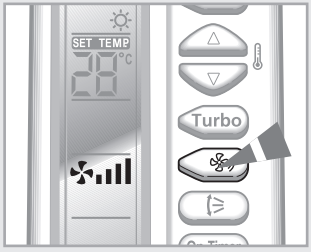
Result:
- The indoor unit beeps each time you press the Mode button.
- The air conditioner runs in the Heat mode.

Note You can change modes at any time.



3 To adjust the temperature, press the ▲/▼ button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

Result:
- Each time you press the ▲/▼ button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps
- If the room temperature reaches the set temperature (selected temperature+5°C), the air conditioner stops heating, but the fan is still operating.
- The air conditioner starts heating, provided that the room temperature is lower than the desired temperature (selected temperature+3°C).



4 Select the fan speed by pressing the fan button one or more times until the required setting is displayed:

- Automatic (rotated : ➡ ➡)
- Low
- Medium
- High
- Maximum

Result:
- Each time you press the fan button, the indoor unit beeps.
- For the first three to five minutes, the fan operates very slowly until the air has been sufficiently warmed. Once the correct temperature has been reached, the fan is automatically set to the required speed.

5 To control the direction of the air flow, refer to pages 14.

Removing Excess Humidity

If the atmosphere in your room is very humid or damp, you can remove excess humidity without lowering the room temperature too much.

1 If necessary, press the Set Cancel button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in the mode selected when the unit was last used.
- ◆ The indoor unit beeps.

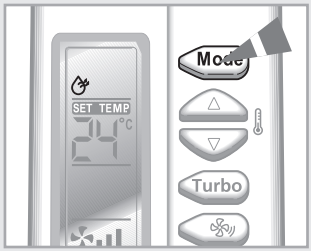
IMPORTANT The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:
- ◆ Plugged in
- ◆ Stopped

It will start up normally after three minutes.

2 If the dry mode icon is not displayed at the top of the remote control,press the Mode button on the remote control one or more times until it appears.

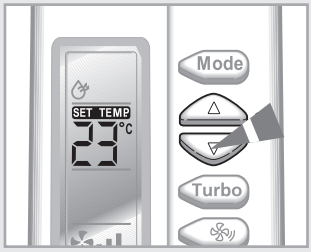
Result:
- ◆ The indoor unit beeps each time you press the Mode button.
- ◆ The air conditioner runs in the Dry mode.

Note You can change modes at any time.



3 To adjust the temperature, press the temperature button one or more times until the required temperature is displayed.
Possible temperatures are between 16°C and 30°C inclusive.

Result:
- ◆ Each time you press the temperature button:
  - The temperature is adjusted by 1°C
  - The indoor unit beeps
- ◆ The air conditioner starts removing the excess humidity; the quantity of air is adjusted automatically.
- ◆ The fan is running in auto mode.



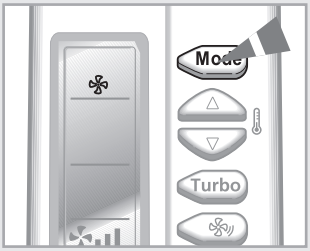
4 To control the direction of the air flow, refer to pages 14.

Airing Your Room

If the atmosphere in your room is stale, you can air the room using the Fan feature.

1 If necessary, press the Set/Cancel button.

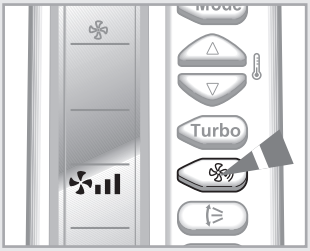
Result:
- The operation indicator on the indoor unit lights up.
- The air conditioner starts up in the mode selected when the unit was last used.
- The indoor unit beeps.



2 If the fan is not displayed at the top of the remote control,press the Mode button on the remote control one or more times until it appears.

Result:
- The indoor unit beeps each time you press the Mode button.
- The air conditioner runs in the Fan mode.
- The temperature is set automatically.

Note You can change modes at any time.



3 Select the fan speed by pressing the fan button one or more times until the required setting is displayed:

- Low
- Medium
- High

Result:
- Each time you press the fan button, the indoor unit beeps.

4 To control the direction of the air flow, refer to pages 14.

Changing the Room Temperature Quickly

The Turbo cooling/heating function is used to cool or heat your room as quickly as possible.

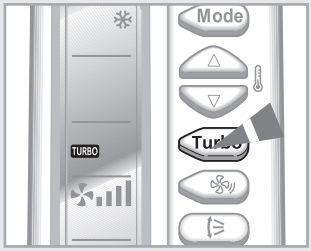
Example : ***You have just come home and find that the room is very hot. You wish to cool it down as quickly as possible.***

The Turbo function operates for 30 minutes with the maximum settings before returning automatically to the mode and temperature previously selected.

1 If necessary, press the Set/Cancel button.

Result:
- ◆ The operation indicator on the indoor unit lights up.
- ◆ The air conditioner starts up in the mode selected when the unit was last used.
- ◆ The indoor unit beeps.

2 Press the Turbo button.



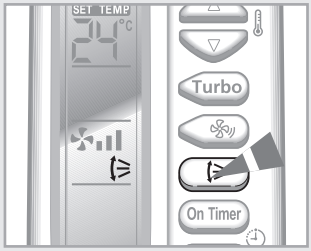
Result:
- ◆ The temperature and fan settings are adjusted automatically.
- ◆ The air conditioner cools or heats the room as quickly as possible.
- ◆ After 30 minutes, the air conditioner is reset automatically to the previous mode, temperature and fan settings.
- ◆ You can select the Turbo function in the Auto, Cool and Heat mode. If you select this function in the Dry or Fan mode, it will return to the Auto mode.

3 If you wish to stop the Turbo function before the end of the 30-minute period, press the Turbo button one or more times until TURBO disappears.

Result: The air conditioner is reset automatically to the previous mode, temperature and fan settings.

4 To control the direction of the air flow, refer to pages 14.

Adjusting the Air Flow Direction Vertically



Depending on the position of the indoor unit on the wall of your room, you can adjust the position of the outer air flow blade on the bottom of the unit, thus increasing the efficiency of the air conditioner.

1 Press the ( ) button one or more times as required.

Result: The outer blade is adjusted vertically.

2 If you want the blade to move up and down automatically when the air conditioner is operating, press the ( ) button.

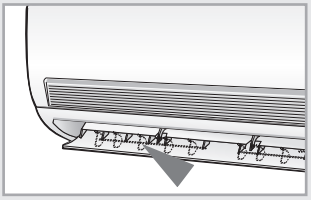
Result: The blade move up and down, around the base position set.

3 To stop the blade moving up and down, press the ( ) button again.

Note

If you switch the air conditioner...	*Then the blade is...*
Off	Closed completely.
On again	Set to the initial position powered.

Adjusting the Air Flow Direction Horizontally



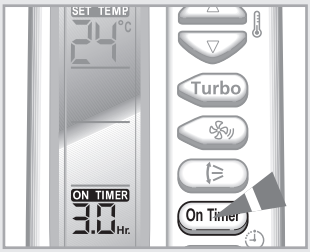
There are two sets of inner air flow blades. Just as the outer air flow blade can be adjusted vertically, the inner blades can be adjusted horizontally.

1 Adjust each set of inner blades to the required position, by pushing or pulling them sideways.

Setting the On Timer

The On Timer enables you to switch on the air conditioner automatically after a given period of time. You can set the period of time from 0.5 hour to 24 hours.

1 To set the operating time, press the On Timer button one or more times until the required time is displayed. Possible time is between 0.5 hour and 24 hour inclusive.

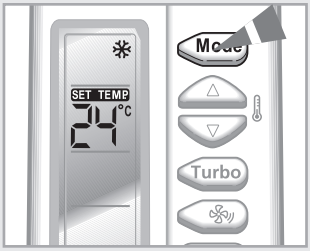


2 Press the Set Cancel button to complete the setting.

Result:
- ◆ The remaining time is displayed.
- ◆ Blinking of the timer indicator stops.
- ◆ The selected mode and the temperature on the display disappear after 10 seconds.
- ◆ The air conditioner will switch on automatically when the counter displayed on the remote control reaches the set time and disappears the On Timer setting.

3 To select an operating mode in advance, press the Mode button until the desired mode is displayed at the top of the remote control.

Result: The air conditioner will run in the selected mode when it is turned on.



Note If you don't operate the remote control after setting the On Timer, it will be turned off automatically after 25 hours.

To Cancel the On Timer

If you no longer wish to use the On Timer that you have set, you can cancel it at any time.

1 To cancel the On Timer, press the On Timer button one or more times until the timer setting disappears.

2 Press the Set Cancel button.

Note If you want to turn on the air conditioner before the timer reaches the setting time, press the Set Cancel button.

Setting the Off Timer

The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 0.5 hour to 24 hours.

1 To set the operating time, press the (Off Timer) button one or more times until the required time is displayed. Possible time is between 0.5 hour and 24 hour inclusive.

2 Press the (Set Cancel) button to complete the setting.

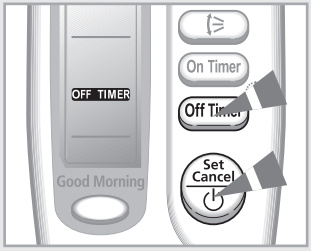
Result:
- ◆ The remaining time is displayed.
- ◆ Blinking of the timer indicator stops.
- ◆ The air conditioner will switch off automatically when the counter displayed on the remote control reaches the set time and disappears the Off Timer setting.

Example **If you would like to turn the air conditioner on after 2 hours and to operate it for 2 hours:**

1. Press the (On Timer) button until '2 Hr' is displayed.
2. Press the (Set Cancel) button.
3. Press the (Off Timer) button until '4 Hr' is displayed.
4. Press the (Set Cancel) button.

Note You can see or change the setting mode and/or the temperature by pressing the (Mode) button or the (▲ ▼) button after setting the Off Timer.

To Cancel the Off Timer



If you no longer wish to use the Off Timer that you have set, you can cancel it at any time.

1 To cancel the Off Timer, press the (Off Timer) button one or more times until the timer setting disappears.

2 Press the (Set Cancel) button.

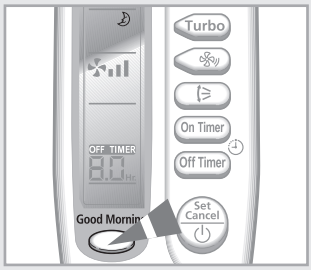
Note If you want to turn off the air conditioner before the timer reaches the setting time, press the (Set Cancel) button.

Selecting Good Morning Mode

For cool and heat model: You can only set Good Morning mode after switching on the air conditioner. The Good Morning mode can be selected in both Heat and Cool modes.

Make sure that you have selected either Cool or Heat mode. As a default, the Off Timer will switch off the air conditioner after 8 hours automatically, or you can press the Good Morning button to set Off Timer in the range from 0.5 hour to 12 hours, then press the ON/OFF button to confirm this selection; during the period of Good Morning mode, the temperature is one selected for Heat or Cool mode. The possible temperatures are between 16 °C and 30°C inclusive.

1 Press the Good Morning button one or more times until ♪ is displayed on your remote control.



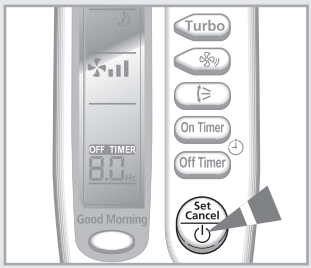
Result:
- ◆ The indoor unit beeps
- ◆ The air conditioner starts the mode you selected before.
- ◆ If the Good Morning is selected for Cool mode, you can not further adjust the fan speed and the direction of the air flow, while the fan is running in automatic mode; if Good Morning is selected for heat mode, you can adjust fan speed and the direction of the air flow, at this mode, the fan is running at a required speed.

To Cancel the Good Morning

If you no longer wish to use the Good Morning that you have set, you can cancel it at any time.

1 press the ON/OFF button to switch off the air conditioner.

2 To cancel a selected Good Morning mode, you can also press the Mode, Turbo, Off Timer or On Timer button .



Operating Recommendations

Here are a few recommendations that you should follow when using your air conditioner.

Topic	Recommendation
Heating performances	The heat pump inside the air conditioner absorbs heat from outside air and brings it indoors. If the temperature of the outside air drops, the air conditioner will heat less. If you find that the room is not warm enough, use an additional heating appliance.
Warm air circulation	The air conditioner circulates warm air to heat your room; as a result, some time will be required after starting the air conditioner to warm the entire room. If necessary, set the air conditioner on before you wish to use the room.
Frost	When outside temperatures are low and humidity is high, frost may form in the outdoor unit when heating is selected. If this happens: ◆ The heating operation is stopped. ◆ The Deice mode is triggered automatically for about seven minutes. No intervention is required from you; after about seven minutes, the air conditioner starts operating again normally.
High indoor and outdoor temperatures	If both the indoor and outdoor temperatures are high and you select the Heat mode, the outdoor unit's fan and compressor may stop at times. This is normal; simply wait until the air conditioner switches on again.
Power failure	If a power failure occurs when the air conditioner is operating, the unit is switched off. When the power returns, the air conditioner starts up again automatically.

Temperature and Humidity Ranges

The following table indicates the temperature and humidity ranges within which the air conditioner can be used.

If the air conditioner is used at...	Then...
High temperatures	The automatic protection feature may be triggered and the air conditioner stopped.
Low temperatures	A water leak or some other malfunction may occur if the heat exchanger freezes.
High humidity levels	Water may condense on and drip from the surface of the indoor unit if it is used for long periods.

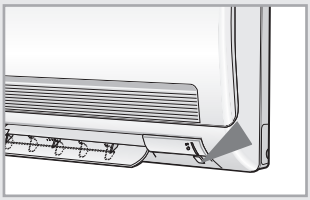
Mode	Outdoor Temperature	Indoor Temperature	Indoor Humidity
Heating	0°C to 24°C approx.	27°C or less	-
Cooling	21°C to 54°C approx.	16°C to 32°C approx.	80% or less
Drying	18°C to 54°C approx.	16°C to 32°C approx.	-

✳ ***If the outdoor temperature is as low as 0°C, the heating capacity drops up to 70~80% depending on the operating condition.***
If the cooling operation is used at over 33°C(indoor temperature), it does not cool at its full capacity.

Operating Your Air Conditioner Without the Remote Control

Your air conditioner can be operated directly from the indoor unit if the remote control is lost or broken.

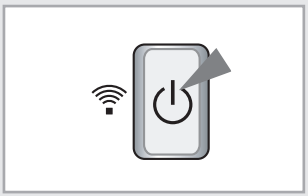
1 To switch the air conditioner on, press the ON/OFF switch on the right side of the indoor unit.



Result:
- ◆ The OPERATION indicator on the indoor unit comes on.
- ◆ The indoor unit beeps.
- ◆ The air conditioner starts up in the most suitable mode for the room temperature. The mode may change from cooling into heating, from heating into cooling depending on the current temperature during operation:

Room Temperature	Operating Mode
Less than 24°C	Heat
24°C or above	Cool

2 To switch the air conditioner off, press the ON/OFF switch again.



Note Even if the air conditioner has been switched on via the ON/OFF switch, operations can still be controlled using the remote control as usual.

Solving Common Problems

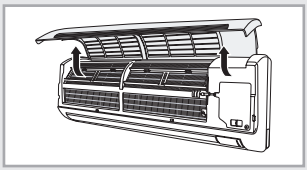
Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary call.

Problem	Explanation/Solution
The air conditioner does not operate at all	◆ Check that the breaker used for the air conditioner is switched on. ◆ Check that the operation indicator on the indoor unit is on; if necessary press the button on the remote control. ◆ Check whether the Timer indicator on the indoor unit is switched on. If so: - Wait until the switch-on time is reached and the air conditioner starts up automatically - Cancel the timer (see pages 15 and 16 for further details)
The air conditioner does not operate with the remote control	◆ Check that there are no obstacles between you and the indoor unit. ◆ Check the remote control batteries. ◆ Check that you are close enough to the indoor unit (seven meters/yards or less).
No beep is heard when you press the Set/Cancel on the remote control	◆ Check that you are pointing the remote control at the remote control sensor in the right of the indoor unit. ◆ Replace the remote control batteries if necessary.
The air conditioner does not cool or heat	◆ Check that the correct operating mode has been selected (Auto, Cool, Heat). ◆ The room temperature may be too low or too high. ◆ Dust may be blocking the air filter guard; refer to page 21 for cleaning instructions. ◆ Check that there is no obstacle in front of the outdoor unit.
When heating, the required room temperature is never reached and the air conditioner frequently stops	◆ Check that the required temperature has been set correctly. ◆ Increase the fan speed. ◆ If the air flow is directed upwards, use the remote control to direct it downwards.
The fan speed does not change when you press the Dry button	◆ Check that the operating mode is set to the Auto, Cool, Heat or Fan mode ; in the Dry mode, the fan speed changes automatically.
The air flow direction does not change when you press the button	◆ Check that the air conditioner has been switched on; if necessary, press the Set/Cancel button on the remote control.
The timer is not correctly triggered	◆ Check that the timer has been programmed correctly; see pages 15 and 16.
Odour is permeated in the room during air conditioning	◆ Air the room.

Cleaning Your Air Conditioner

To get the best possible use out of your air conditioner, you must clean it regularly to remove the dust that accumulates on the air filter.

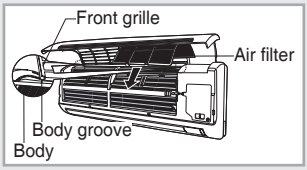
IMPORTANT **Before cleaning your air conditioner, ensure that you have switched off the breaker used for the unit.**



1 Open the upper front grille by pulling the lower right and left tabs of the grille.

2 Pull air filters out of each tab of the grille.

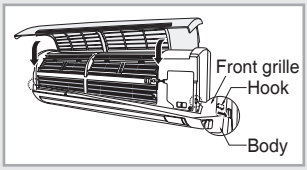
3 Remove all dust on the air filters with a vacuum cleaner or brush.



4 When you finished, insert air filters by fixing it to each tab of the grille.

5 To close the front grille, fix it to hooks and push down the lower right and left tabs of the grille.

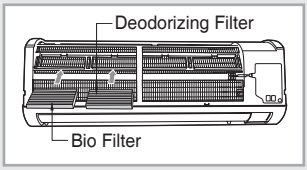
6 Clean the front grille with a damp cloth and mild detergent (do NOT use benzene, solvents or other chemicals).



Note ***If you have not used the air conditioner for a long period of time, set the fan going for three to four hours to dry the inside of the air conditioner thoroughly.***

Cleaning Deodorizing and Bio filter (Option)

To remove minute dust particles and odors, deodorizing and Bio filter are installed in the air conditioner. You should clean the filters every 3 months.



1 Open the upper front grille by pulling the lower right and left tabs of the grille.

2 Pull out the deodorizing and Bio filter.

3 Wash the filters with clean water, then dry them in the shade.

4 Insert the filters into the original position.

Note You can change the position of filters with each other.

5 Close the front grille.

Contact SAMSUNG WORLD WIDE

If you have any comments or questions regarding a Samsung products, contact the SAMSUNG customer care center.

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